Human Systems Integration Division

Leads the Agency in developing advanced human-centered systems through modeling of human performance and automation interactions. These solutions address complex operational challenges in flight, ground, and data management systems to deliver safe, high-performing capabilities for space missions and national aviation goals.



Electric Vertical Take-Off & Landing (eVTOL) Vehicle Simulation



Air Traffic Management Simulation



Operator State Assessment



Playbook Mission Planning Software



Remote Pilot Station Simulation

S E R V I C E S

- Airspace Operations Research
- Auditory & Visual Display Development
- Aviation Safety Research
- Human-Autonomy Teaming
- Human-in-the-Loop Assessments
- Human Performance Evaluations
- Integrated Mission Data & Planning Systems Development
- Unmanned Aerial Systems Traffic Management (UTM) Studies

nasa.gov/human-systems-integration-division

Intelligent Systems Division

Provides leadership in increasingly autonomous systems by conducting mission-driven, user-centric research and development in computational sciences for NASA. Demonstrates and infuses innovative technologies for autonomy, robotics, and decision-making tools, and develops software systems for data mining, integrated health management, systems safety, and mission assurance.



Software Engineering, Autonomy, & Assurance Technologies



Advanced Flight Control Technologies



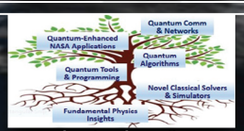
Autonomous Systems & Robotics



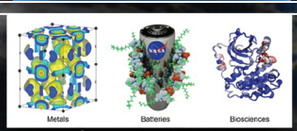
Information Systems



Planning & Scheduling Technologies



Quantum Computing



Computational Materials

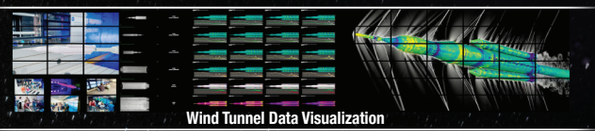
S E R V I C E S

- Artificial Intelligence
- Robotics
- Flight & Mission Critical Software
- Enterprise Information Management
- Complex Systems Assurance, Validation, & Verification
- Data Analysis & Mining
- Integrated Systems Health Management Technologies
- Computation Materials
- Quantum Computing
- Applied Physics Technologies

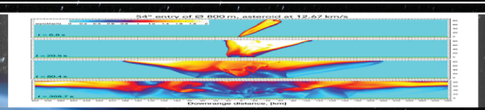
nasa.gov/intelligent-systems-division

NASA Advanced Supercomputing Division

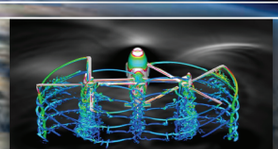
Delivers advanced computing resources and services to NASA-funded scientists and engineers across missions in space exploration, aeronautics, and Earth and space science. Provides high-fidelity modeling, simulation, and visualization for aerospace design, risk/safety assessment, aeronautics research, Earth science, heliophysics, and astrophysics.



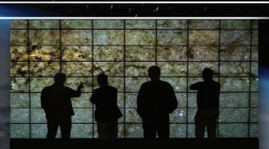
Wind Tunnel Data Visualization



High-Fidelity Blast Wave Modeling of Large Asteroid Impacts



Urban Air Mobility (UAM) Simulation



Hyperwall Data Visualization & Analysis



Modular Supercomputing Facility



Athena Supercomputer

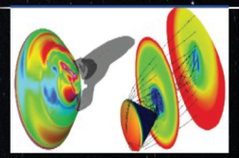
S E R V I C E S

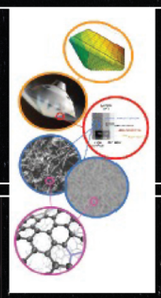
- Advanced Modeling and Simulation
- Application Optimization
- Risk/Safety Assessment
- Exascale Data Storage & Management
- High-Performance Networks
- IT Security
- Large-Scale Visualization
- Science Data Pipelines
- Modular Supercomputing Engineering
- Petaflop-Scale Systems Engineering

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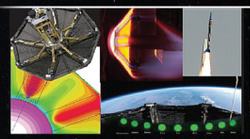
Entry Systems and Technology Division

Develops and infuses innovative entry system technologies into NASA human exploration and planetary science missions. Operates high enthalpy testing facilities including arc jets, hypervelocity free flight ranges, and shock tubes. Develops thermal protection materials, engineering instrumentation, design tools, and system models that enable and advance national and commercial space goals.


Aerothermal Modeling & Analysis

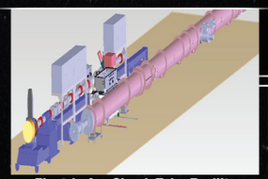

TPS Material Modeling & Analysis


STAR Labs


Entry Vehicle & System Engineering


Ballistic Range Complex


Arc Jet Complex


Electric Arc Shock Tube Facility


TPS Instrumentation

S E R V I C E S

- Aerothermal & Aerodynamic Testing & Analysis
- Applied TPS Sizing & Margin Policy Development
- Aerothermal/Material Response Modeling
- R&D of TPS Materials, Coatings, Gaps, Seals, Adhesives
- Characterization & NDE of TPS Materials
- Fabrication of TPS Materials
- Entry Vehicle (EV) Systems Analysis, Design Engineering
- EV Design, Development, Manufacturing, Assembly, NDE
- EV Testing, V&V, Qualification, Acceptance, Certification
- EV Risk Management & Reliability Assessment

nasa.gov/entry-systems-and-technology-division

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NP-2026-07-01-ARC

National Aeronautics and Space Administration



Exploration Technology Directorate at NASA's Ames Research Center



M I S S I O N

World-class creators and facilitators of innovative, intelligent, high-performance and reliable exploration technologies that enable current and future NASA missions